



SEQUENCE LISTING

<110> Attie, Alan D.

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Pimstone, Simon

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Thr Ile Met Asp Leu Phe Gln Asn Gly Asn Trp Thr Met Gln Asn Pro
1445 1450 1455

Ser Pro Ala Cys Gln Cys Ser Ser Asp Lys Ile Lys Lys Met Leu Pro
1460 1465 1470

Val Cys Pro Pro Gly Ala Gly Gly Leu Pro Pro Pro Gln Arg Lys Gln
1475 1480 1485

Asn Thr Ala Asp Ile Leu Gln Asp Leu Thr Gly Arg Asn Ile Ser Asp
1490 1495 1500

Tyr Leu Val Lys Thr Tyr Val Gln Ile Ile Ala Lys Ser Leu Lys Asn
1505 1510 1515 1520

Lys Ile Trp Val Asn Glu Phe Arg Tyr Gly Gly Phe Ser Leu Gly Val
1525 1530 1535

Ser Asn Thr Trp Ala Leu Pro Pro Ser Gln Glu Val Asn Asp Ala Ile
1540 1545 1550

Lys Gln Met Lys Lys His Leu Lys Leu Ala Lys Asp Ser Ser Ala Asp
1555 1560 1565

Arg Phe Leu Asn Ser Leu Gly Arg Phe Met Thr Gly Leu Asp Thr Arg
1570 1575 1580

Asn Asn Val Lys Val Trp Phe Asn Asn Lys Gly Trp His Ala Ile Ser
1585 1590 1595 1600

Ser Phe Leu Asn Val Ile Asn Asn Ala Ile Leu Arg Ala Asn Leu Gln
1605 1610 1615

Lys Gly Glu Asn Pro Ser His Trp Gly Ile Thr Ala Phe Asn His Pro
1620 1625 1630

Leu Asn Leu Thr Lys Gln Gln Leu Ser Glu Val Ala Leu Met Thr Thr
1635 1640 1645

Ser Val Asp Val Leu Val Ser Ile Cys Val Ile Phe Ala Met Ser Phe
1650 1655 1660

Val Pro Ala Ser Phe Val Val Phe Leu Ile Gln Glu Arg Val Ser Lys
1665 1670 1675 1680

Ala Lys His Leu Gln Phe Ile Ser Gly Val Lys Pro Val Ile Tyr Trp
1685 1690 1695

Leu Ser Asn Phe Val Trp Asp Met Cys Asn Tyr Val Val Pro Ala Thr
1700 1705 1710

Leu Val Ile Ile Ile Phe Ile Cys Phe Gln Gln Lys Ser Tyr Val Ser
1715 1720 1725

Ser Thr Asn Leu Pro Val Leu Ala Leu Leu Leu Leu Tyr Gly Trp
1730 1735 1740

Ser Ile Thr Pro Leu Met Tyr Pro Ala Ser Phe Val Phe Lys Ile Pro
1745 1750 1755 1760

Ser Thr Ala Tyr Val Val Leu Thr Ser Val Asn Leu Phe Ile Gly Ile
1765 1770 1775

Asn Gly Ser Val Ala Thr Phe Val Leu Glu Leu Phe Thr Asp Asn Lys
1780 1785 1790

Leu Asn Asn Ile Asn Asp Ile Leu Lys Ser Val Phe Leu Ile Phe Pro
1795 1800 1805

His Phe Cys Leu Gly Arg Gly Leu Ile Asp Met Val Lys Asn Gln Ala
1810 1815 1820

Met Ala Asp Ala Leu Glu Arg Phe Gly Glu Asn Arg Phe Val Ser Pro
1825 1830 1835 1840

Leu Ser Trp Asp Leu Val Gly Arg Asn Leu Phe Ala Met Ala Val Glu
1845 1850 1855

Gly Val Val Phe Phe Leu Ile Thr Val Leu Ile Gln Tyr Arg Phe Phe
1860 1865 1870

Ile Arg Pro Arg Pro Val Asn Ala Lys Leu Ser Pro Leu Asn Asp Glu
1875 1880 1885

Asp Glu Asp Val Arg Arg Glu Arg Gln Arg Ile Leu Asp Gly Gly Gly
1890 1895 1900

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Cont

Gln Asn Asp Ile Leu Glu Ile Lys Glu Leu Thr Lys Ile Tyr Arg Arg
1905 1910 1915 1920

Lys Arg Lys Pro Ala Val Asp Arg Ile Cys Val Gly Ile Pro Pro Gly
1925 1930 1935

Glu Cys Phe Gly Leu Leu Gly Val Asn Gly Ala Gly Lys Ser Ser Thr
1940 1945 1950

Phe Lys Met Leu Thr Gly Asp Thr Thr Val Thr Arg Gly Asp Ala Phe
1955 1960 1965

Leu Asn Lys Asn Ser Ile Leu Ser Asn Ile His Glu Val His Gln Asn
1970 1975 1980

Met Gly Tyr Cys Pro Gln Phe Asp Ala Ile Thr Glu Leu Leu Thr Gly
1985 1990 1995 2000

Arg Glu His Val Glu Phe Phe Ala Leu Leu Arg Gly Val Pro Glu Lys
2005 2010 2015

Glu Val Gly Lys Val Gly Glu Trp Ala Ile Arg Lys Leu Gly Leu Val
2020 2025 2030

Lys Tyr Gly Glu Lys Tyr Ala Gly Asn Tyr Ser Gly Gly Asn Lys Arg
2035 2040 2045

Lys Leu Ser Thr Ala Met Ala Leu Ile Gly Gly Pro Pro Val Val Phe
2050 2055 2060

Leu Asp Glu Pro Thr Thr Gly Met Asp Pro Lys Ala Arg Arg Phe Leu
2065 2070 2075 2080

Trp Asn Cys Ala Leu Ser Val Val Lys Glu Gly Arg Ser Val Val Leu
2085 2090 2095

Thr Ser His Ser Met Glu Glu Cys Glu Ala Leu Cys Thr Arg Met Ala
2100 2105 2110

Ile Met Val Asn Gly Arg Phe Arg Cys Leu Gly Ser Val Gln His Leu
2115 2120 2125

Lys Asn Arg Phe Gly Asp Gly Tyr Thr Ile Val Val Arg Ile Ala Gly
2130 2135 2140

Ser Asn Pro Asp Leu Lys Pro Val Gln Asp Phe Phe Gly Leu Ala Phe
2145 2150 2155 2160

Pro Gly Ser Val Leu Lys Glu Lys His Arg Asn Met Leu Gln Tyr Gln
2165 2170 2175

Leu Pro Ser Ser Leu Ser Ser Leu Ala Arg Ile Phe Ser Ile Leu Ser
2180 2185 2190

Gln Ser Lys Lys Arg Leu His Ile Glu Asp Tyr Ser Val Ser Gln Thr
2195 2200 2205

Thr Leu Asp Gln Val Phe Val Asn Phe Ala Lys Asp Gln Ser Asp Asp
2210 2215 2220

Asp His Leu Lys Asp Leu Ser Leu His Lys Asn Gln Thr Val Val Asp
2225 2230 2235 2240

Val Ala Val Leu Thr Ser Phe Leu Gln Asp Glu Lys Val Lys Glu Ser
2245 2250 2255

Tyr Val

<210> 3

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<400> 3

Lys Glu Ala Arg Leu Lys Glu Thr Met Arg Ile Met Gly Leu Asp Asn
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Ser Ile

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<212> PRT

<213> Homo sapiens

<400> 4

Phe Ser Arg Ala Asn
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<210> 5

<211> 26

<212> PRT

<213> Homo sapiens

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Ala Leu Phe Glu Glu Gln Gly Ile Gly Val Gln Trp Asp Asn Leu Phe
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Glu Ser Pro Val Glu Glu Asp Gly Phe Asn
20 25

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<211> 284

<212> PRT

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Phe Gly Lys Tyr Pro Ser Leu Glu Leu Gln Pro Trp Met Tyr Asn Glu
1 5 10 15

Gln Tyr Thr Phe Val Ser Asn Asp Ala Pro Glu Asp Thr Gly Thr Leu
20 25 30

Glu Leu Leu Asn Ala Leu Thr Lys Asp Pro Gly Phe Gly Thr Arg Cys
35 40 45

Met Glu Gly Asn Pro Ile Pro Asp Thr Pro Cys Gln Ala Gly Glu Glu
50 55 60

Glu Trp Thr Thr Ala Pro Val Pro Gln Thr Ile Met Asp Leu Phe Gln
65 70 75 80

Asn Gly Asn Trp Thr Met Gln Asn Pro Ser Pro Ala Cys Gln Cys Ser
85 90 95

Ser Asp Lys Ile Lys Lys Met Leu Pro Val Cys Pro Pro Gly Ala Gly
100 105 110

Gly Leu Pro Pro Pro Gln Arg Lys Gln Asn Thr Ala Asp Ile Leu Gln
115 120 125

Asp Leu Thr Gly Arg Asn Ile Ser Asp Tyr Leu Val Lys Thr Tyr Val
130 135 140

Gln Ile Ile Ala Lys Ser Leu Lys Asn Lys Ile Trp Val Asn Glu Phe
145 150 155 160

Arg Tyr Gly Gly Phe Ser Leu Gly Val Ser Asn Thr Gln Ala Leu Pro

165	170	175
Pro Ser Gln Glu Val Asn Asp Ala Ile Lys Gln Met Lys Lys His Leu		
180	185	190
Lys Leu Ala Lys Asp Ser Ser Ala Asp Arg Phe Leu Asn Ser Leu Gly		
195	200	205
Arg Phe Met Thr Gly Leu Asp Thr Arg Asn Asn Val Lys Val Trp Phe		
210	215	220
Asn Asn Lys Gly Trp His Ala Ile Ser Ser Phe Leu Asn Val Ile Asn		
225	230	235
Asn Ala Ile Leu Arg Ala Asn Leu Gln Lys Gly Glu Asn Pro Ser His		
245	250	255
Tyr Gly Ile Thr Ala Phe Asn His Pro Leu Asn Leu Thr Lys Gln Gln		
260	265	270
Leu Ser Glu Val Ala Leu Met Thr Thr Ser Val Asp		
275	280	

<210> 7
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<400> 7
 Leu Leu Leu Leu Tyr Gly Trp Ser Ile Thr Pro Leu Met Tyr Pro Ala
 1 5 10 15
 Ser Phe Val Phe Lys Ile Pro
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<210> 8
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 8
 Val Lys Asn Gln Ala Met Ala Asp Ala Leu Glu Arg Phe Gly Glu Asn
 1 5 10 15
 Arg Phe Val Ser Pro Leu Ser Trp Asp Leu Val Gly Arg
 20 25

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Primer

<400> 9
gtcacttccc aaacaaagct a 21

<210> 10
<211> 20
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Primer

<400> 10
atggacgcat tgaagtttcc 20

<210> 11
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<213> chicken

<400> 11
accaggggaa tctcc 15

<210> 12
<211> 15
<212> DNA
<213> chicken

<400> 12
accagggaaa tctcc 15

<210> 13
<211> 15
<212> PRT
<213> Homo sapiens

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Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly Val Val Gly Asn Phe
1 5 10 15

<210> 14

<211> 15

<212> PRT

<213> mouse

<400> 14

Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly Val Val Gly Asn Phe
1 5 10 15

<210> 15

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<212> PRT

<213> Takifugu Rubripes

<400> 15

Ser His Pro Thr Leu Gly Glu Thr Pro Gly Gln Val Asn Asn Phe
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<210> 16

<211> 15

<212> PRT

<213> chicken

<400> 16

Arg Tyr Pro Thr Pro Gly Glu Ser Pro Gly Ile Val Gly Asn Phe
1 5 10 15

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<400> 17

Arg Tyr Pro Thr Pro Gly Lys Ser Pro Gly Ile Val Gly Asn Phe
1 5 10 15

<210> 18

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<212> DNA
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<400> 18
cgctacccaa caccagggga atctcctggt attggtggaa acttc

45

<210> 19
<211> 45
<212> DNA
<213> chicken

<400> 19
cgctacccaa caccagggga atctcctggt attggtggaa acttc

45